

भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAYS
(रेलवे बोर्ड) (RAILWAY BOARD)

सं. 2007/Tele/TCM/1

नई दिल्ली, दिनांक: 25/06/2013

The Chief Signal & Telecom Engineer,
All Indian Railways.

Director/IRISET/Secunderabad,
CAO/IRPMU/New Delhi,
ED/Tele/RDSO/LKO.

Sub: Indian Railway Telecom Manual.
Ref: This office letter of even no. dated 05.12.2012.

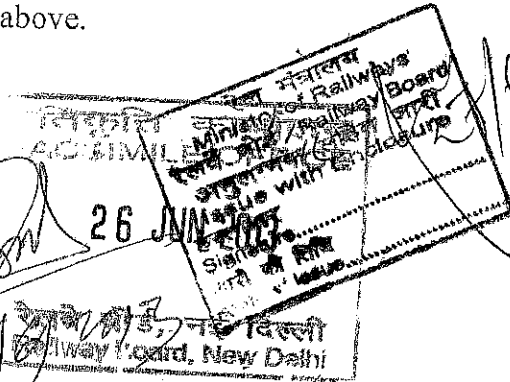
Vide letter under reference Board had set up a committee to update the Telecom Manual.

The committee has suggested a framework for the revision of Telecom Manual. Based on this, it has been decided to divide the work among zonal Railways so that the Telecom Manual can have inputs from zonal Railways as well.

Annexed is the framework for revision wherein the responsibilities of preparation of updated draft chapters have been indicated.

It is desired that the Railways that have been earmarked for preparation of updated draft chapter may submit these drafts by 31st August, 2013 to ED/Tele/RDSO for consideration of the committee and Finalisation of the same. While updating the chapters, importance should be given to the maintenance requirement at field level covering all aspects including the schedule of maintenance.

DA: As above.



राजेश
(राजेश रंजन)

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SER ✓
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Railways ✓
Kolkata ✓

Plan for Manual Revision

| S.N. | Proposed Chapter | Updation Action | To be done by |
|------|---|---|-------------------------|
| 1 | Organization Structure of Telecom Department on Indian Railways | To be updated. | Dir/Tele/Railway Board, |
| 2 | Control & Emergency Communication (i) Train Traffic Control - Principles (ii) On U/G Cables in non-RE area (iii) On U/G Cables in RE area (iv) On OFC in RE/non RE area | To be updated. STC key sending and push button type system to be deleted. Overhead alignment and RE cable to be deleted. New topics like Automatic radio control patching; integrated way station communication equipment, Multichannel voice recorder etc. needs to be added. | Prof (Telecom)/TRISSET, |
| 3 | Administrative Communication (i) Telephone Exchanges (ii) Video Conferencing | Topics like IP exchange, VoIP etc. needs to be added. | CCE/SECR |
| 4 | Communication Arrangements During Accidents (i) Communication arrangement at ARTs (i) Satellite Communication | To be updated. Portable VSAT, suitcase type VSATs etc. needs to be added. | CSTE/IRPMU |
| 5 | VHF Communication | E1/IP Radio needs to be added. | CCE/SCR |
| 6 | Arrangements for OFC Communication (i) SDH/STM (ii) PD MUX | DWDM, Protection arrangement, Control channeling etc. needs to be added. | CCE/WR |
| 7 | Arrangement for Quad Cable Communication | 1. Conventional system 2. Amplifier Equalizer system. | CCE/WR |

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| | | | <p>3. Different LC Gate communication arrangement</p> <p>4. Quad Cable Jointing and terminations including new jointing arrangements.</p> | |
| 8 | Mobile Train Radio Communication | | Uniform numbering scheme, Plan of MTRC, interoperability needs to be added. | CCE/ER |
| 9 | Data Networking | | <p>Railnet UTN (UTS & PRS) FOIS network Next Generation Network</p> <p>Topics like, LAN extender, Modems, DSLAM, MPLS etc. needs to be added.</p> | GGM/DN/RailTel |
| 10 | Telecom Requirement for Signalling Gears (i) Arrangement for Block Instrument (ii) Arrangement for Data Loggers | | | CCE/SECR |
| 11 | Requirements of communication at a new station | | <p>Requirement for data-logger networking, connectivity arrangements for UTS, PRS, etc.</p> <p>needs to be added/updated.</p> | CCE/SECR |
| 12 | Power Plant for Telecommunication | | To be updated. | CCE/WR |

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| 13 | Passenger Amenities (i) Integrated Passenger Information System (ii) Multi-line Trains Indication Boards (iii) Single-line Trains at a Glance Boards (iv) Coach Guidance System (v) Clocks (vi) PA System | Digital PA system, IPIS, True Colour, Digital Clock to be added. | CCE/SR |
| 14 | Video Surveillance System | To be updated in line with ISS. | Dir/Tele/RDSO |
| 15 | Coordination with Other Ministries | To be updated in terms of new PTCC manuals and latest policies of WPC, DoT. | Dir/Tele/Railway Board, |
| 16 | Protection Arrangements (i) Protecting Telecom Gears against Lightning (ii) Protection of Staff | To be updated. | CCE/WCR |
| 17 | Fault Control Procedures & Failure Reporting and Records | To be updated. | CCE/CR |
| 18 | Inspections | To be updated. | CCE/WCR |
| 19 | Books of Reference | To be updated. | Dir/Tele/RDSO |

20/5/21